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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/673,486	09/30/2003	Mustafa K. Guven	08350.2689	1530	
7590 10/06/2004			EXAMINER		
Finnegan, Henderson, Farabow,			BROADHEAD, BRIAN J		
Garrett & Dunner, L.L.P. 1300 I Street, N.W.			ART UNIT	PAPER NUMBER	
Washington, DC 20005-3315			3661		

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	(1)				
Office Action Summary		10/673,4	86	GUVEN ET AL.	1				
		Examine	r	Art Unit					
		Brian J. E		3661					
Period fo	The MAILING DATE of this communication Reply	on appears on th	e cover sheet with	n the correspondence addre	ess				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no eviction. s, a reply within the state period will apply and waystatute, cause the app	ent, however, may a rep tutory minimum of thirty rill expire SIX (6) MONT blication to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this comm NDONED (35 U.S.C. § 133).	nunication.				
Status									
1)⊠	Responsive to communication(s) filed on	30 September	2003						
2a)□	. · ·								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 and 16-18 is/are rejected. 7) Claim(s) 14 and 15 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicat	ion Papers								
10)⊠	The specification is objected to by the Example The drawing(s) filed on 30 September 200 Applicant may not request that any objection Replacement drawing sheet(s) including the other oath or declaration is objected to by the specific sheet of the second sheet of the	03 is/are: a)⊠ a to the drawing(s) correction is requi	pe held in abeyand red if the drawing(s	e. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	1.121(d).				
Priority (ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	t(s)								
1) Notice 2) Notice	re of References Cited (PTO-892) re of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/5		Paper No(s)	mmary (PTO-413) Mail Date ormal Patent Application (PTO-15	(2)				
	mation Disclosure Statement(s) (PTO-1449 or PTO/s r No(s)/Mail Date <u>9-30-03</u> . 	ob/Uō)	6) Other:		·-)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 8, 9, 10, 11, 12, 16, 17, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Schleicher et al., 2001/0004319.
- 3. As per claims 1, 10, 12, 16, , Schleicher et al. disclose a power source operable to generate a power output, the power source having a desired operating range in paragraph 40; a transmission including a drive member operably connected with the power source and a driven member(14); and a control system in communication with the power source and the transmission, wherein the control system is operable to receive at least one input indicative of a load on the transmission, to identify a desired load of the transmission based on the at least one input, to receive at least one input indicative of a current power output of the power source, and to limit desired transmission load applied to the driven member of the transmission based on the current power output of the power source to thereby prevent the power source from operating outside of the desired operating range in paragraph 40.
- 4. As per claim 3, 11, and 17, Schleicher et al. disclose wherein the one or more inputs indicative of current power output of the power source include: a power source

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speed signal; a fuel setting signal; and a fuel injection timing signal in paragraph 23 and 26.

- 5. As per claim 8, Schleicher et al. disclose an observer in communication with the power source and operable to determine a current output torque estimate of the power source in paragraph 27; and a controller in communication with the transmission and operable to determine the desired load of the transmission and to limit the desired load placed on the driven member of the transmission to prevent the power source from operating outside of the desired operating range in paragraph 40.
- 6. As per claim 9, Schleicher et al. disclose a sensor adapted to determine a speed of the power source and to provide a signal indicative of the power source speed in paragraph 39; and a sensor adapted to determine an output speed of the transmission and provide a signal indicative of the transmission output speed in paragraph 29.
- 7. As per claim 18, Schleicher et al. disclose wherein the transmission is a continuously variable transmission and the one or more inputs indicative of transmission loading include: a transmission output speed; and a transmission output torque in paragraph 40.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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9. Claims 2, 4, 5, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schleicher et al., 2001/0004319, in view of Manken et al., 6427110.

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Schleicher et al. disclose the limitations as set forth above. Schleicher et al. do 10. not disclose the power source is a diesel engine; a variable displacement pump in communication with the control system; a variable displacement motor fluidly connected to the variable displacement pump, the variable displacement motor being in communication with the control system; and a sensor operably disposed between the variable displacement pump and the variable displacement motor, the sensor operable to detect a fluid pressure and lo provide an indication of the fluid pressure to the control system. Manken et al. teach disclose the power source is a diesel engine on line 8, on column 1; a variable displacement pump in communication with the control system, a variable displacement motor fluidly connected to the variable displacement pump, the variable displacement motor being in communication with the control system, and a sensor operably disposed between the variable displacement pump and the variable displacement motor, the sensor operable to detect a fluid pressure and lo provide an indication of the fluid pressure to the control system on lines 11-34, on column 4. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teachings of Manken et al. in the invention of Schleicher et al. because such modification would allow the invention of Schleicher et al. to work on a variety of common drivetrains. It is conventional in the art to interchange different transmission types depending on the situation.

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11. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schleicher et al., 2001/0004319, in view of Kuras, 6424902.

12. Schleicher et al. disclose the limitations as set forth above. Schleicher et al. do not disclose a generator in communication with the control system; and a motor in communication with the control system and with the generator. Kuras teaches of a generator in communication with the control system; and a motor in communication with the control system and with the generator on lines 25-30, on column 5. They are inherent in the teaching of using a electronic transmission with a motor-generator pair. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teachings of Kuras in the invention of Schleicher et al. because such modification would allow the invention of Schleicher et al. to work on a variety of common drivetrains. It is conventional in the art to interchange different transmission types depending on the situation.

Allowable Subject Matter

- 13. Claims 14 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 14. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose determining a limiting motor command signal by comparing the current power source output power estimate with the current transmission output speed and a maximum acceptable speed droop or overspeed scaling factor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Broadhead whose telephone number is 703-308-9033. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 703-305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BJB BJB

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